D-21320

## IN THE CLAIMS

- 1. (currently amended) A method of thermal spraying a material not sensitive to oxidation or nitridation\_comprising thermal spraying said material from a thermal spray device with a coaxial gas shield having a shield gas flow substantially surrounding the effluent of the thermal spray device to produce a desired microstructure coating on at least a portion of the surface of a substrate <a href="having a complex shape">having a complex shape</a> and a standoff distance between the surface of the substrate and the exit end of the shielded thermal spray device is at least 20% longer than the standoff distance of a non-shielded thermal spray device and said shielded gas flowing thermal spraying producing a microstructure coating similar to a microstructure coating that would be produced using the smaller standoff of the non-shielded thermal spraying device.
- 2. (original) The method of claim 1 wherein the material is a ceramic.
- 3. (original) The method of claim 1 wherein the standoff distance is at least 50% longer.
- 4. (original) The method of claim 1 wherein the coaxial shield gas flow is an essentially turbulent gas flow substantially surrounding the effluent of the thermal spray device.
- 5. (original) The method of claim 3 wherein the coaxial shield gas flow is an essentially turbulent gas flow substantially surrounding the effluent of the thermal spray device.

D-21320

- 6. (original) The method of claim 2 wherein said ceramic material is an oxide.
- 7. (original) The method of claim 6 wherein said oxide is zirconia or a compound containing zirconia.
- 8. (original) The method of claim 2 wherein said coating comprises layers of the ceramic material.
- 9. (previously presented) The method of claims 2 wherein said gas used in the coaxial gas shield is selected from the group consisting of argon, nitrogen, air and mixtures thereof.
  - 10. (original) The method of claim 9 wherein the gas is argon.
- 11. (original) The method of claim 3 wherein the material is a ceramic material.
- 12. (original) The method of claim 11 wherein said ceramic is zirconia or a compound containing zirconia.
- 13. (original) The method of claim 11 wherein said coating comprises layers of the ceramic material.
- 14. (withdrawn) A coated article having a coated layer wherein the coated layer is produced by the method of claim 1.

- 15. (withdrawn) The coated article of claim 14 wherein the coating is a ceramic material.
- 16. (withdrawn) The coated article of claim 14 wherein said article is a component of a gas turbine engine.
- 17. (withdrawn) The coated article of claim 15 wherein said article is a component of an internal combustion engine.
- 18. (withdrawn) The coated article of claim 15 wherein the coated layer is produced by the method of claim 3.
- 19. (withdrawn) The coated article of claim 18 wherein said article is a component of a gas turbine engine.
- 20. (withdrawn) The coated article of claim 18 wherein said article is a component of an internal combustion engine.
- 21. (previously presented) The method of claim 1 wherein the material is selected from the group consisting of ceramics, oxides, nitrides, carbides and other non-reactive materials.
- 22. (new) The method of claim 1 wherein the substrate having a complex shape is selected from turbine blades and vanes.